

Title (en)

Leak detection and responsive treatment in industrial water processes

Title (de)

Lecknachweis und nachfolgende Behandlung bei industriellen Wasserprozessen

Title (fr)

Détection de fuites et traitement subséquent pour processus industriels d'eau

Publication

**EP 0597659 B1 19980527 (EN)**

Application

**EP 93308918 A 19931109**

Priority

US 97414492 A 19921110

Abstract (en)

[origin: EP0597659A2] Leakage is detected between a process fluid and a temperature-conditioning fluid, or from a process fluid to a temperature-conditioning fluid, in an industrial process. The industrial process includes an A and a B fluid, and one of the A and B fluids receives heat from or transfer heat to the other of the A and the B fluids by an indirect contact method, and one but not both of the A and the B fluids is an industrial process fluid. At least one specie of tracer chemical is maintained in the A fluid, and that specie of tracer chemical is not a normal component of the B fluid. At least one of the A and the B fluids is subjected to at least one analysis at least one site. Such analysis at least detects the presence of the specie of tracer chemical when the fluid subjected to the analysis is the B fluid, and such analysis at least determines the concentration of the specie of tracer chemical when the fluid subjected to the analysis is the A fluid. <IMAGE>

IPC 1-7

**G01M 3/22**

IPC 8 full level

**G01M 3/04** (2006.01); **G01M 3/20** (2006.01); **G01M 3/22** (2006.01)

CPC (source: EP KR US)

**G01M 3/228** (2013.01 - EP US); **G01N 21/90** (2013.01 - KR)

Cited by

CN102455291A; GB2396923A; GB2396923B; GB2335498A; AU739315B2; GB2335498B; US6948551B1; US7572636B2; WO0057152A1; WO0237975A3; WO9919706A1

Designated contracting state (EPC)

AT BE DE DK ES FR GB GR IE IT NL PT SE

DOCDB simple family (publication)

**EP 0597659 A2 19940518**; **EP 0597659 A3 19940608**; **EP 0597659 B1 19980527**; AT E166719 T1 19980615; BR 9304674 A 19941101; CA 2102338 A1 19940511; DE 69318803 D1 19980702; DE 69318803 T2 19981022; DK 0597659 T3 19990125; ES 2118908 T3 19981001; JP H06281528 A 19941007; KR 100247667 B1 20000401; KR 940011366 A 19940621; MX 9306984 A 19950131; TW 294784 B 19970101; US 5304800 A 19940419; US 5416323 A 19950516

DOCDB simple family (application)

**EP 93308918 A 19931109**; AT 93308918 T 19931109; BR 9304674 A 19931109; CA 2102338 A 19931103; DE 69318803 T 19931109; DK 93308918 T 19931109; ES 93308918 T 19931109; JP 28089393 A 19931110; KR 930023655 A 19931109; MX 9306984 A 19931108; TW 82109403 A 19931109; US 14670593 A 19931101; US 97414492 A 19921110